

Grassland PROVE (PROtotype Validation

An EOS Coordinated Test of Validation Data Instrumentation and Sa

May 20-30, 1997

USDA-ARS/LTER Jornada Experimental

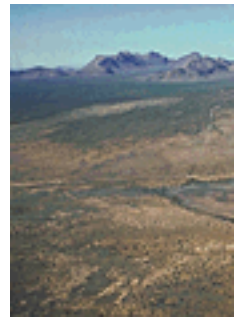
(near Las Cruces, NM)

Participants: MODIS, MISR, ASTER, USDA-ARS, LT
AERONET,
EOS IDS, ORNL DAAC, POLDER

A Flat Arid Valley Floor: GRASSLAND ==> TRANSITIONAL ==>
(8000 ha) (12000 ha) (35000 ha)

D. Starr, EOS Validation Scientist
NASA Goddard Space Flight Center

U.S. LTER Network • Jornada Basin • Las Cruces, New Mexico



- Institutional affiliations: New Mexico State University; USDA ARS Jornada Experiment Station; University of North Carolina; NOAA, Research Triangle Park, NC; University of New Mexico; Dartmouth College; Texas Technological University; SUNY Buffalo, NY; University of Leicester, London, UK; EPA-EMAP, Las Vegas, NV
- Principal biome/main communities: Hot desert. Playa, piedmont, and scrubland; bajada, basin, mountain and swale shrubland; mesquite dunes

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- Research topics: Desertification; factors affecting primary production; animal-induced soil indirect consumer effects; vertebrate and invertebrate population dynamics; grazing effects on ecosystem structure and function; biogeochemical function; small mammal effects on soil and vegetation heterogeneity; soil microbial processes; trace gas emissions from soils; eolian processes

Jornada Basin

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Please send questions, comments or suggestions to the LTER Network Coordinator

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PROVE Platforms/Instrumentation

Grassland Site (100' Cherrypicker*) and Transitional Site (100'

ASD Spectrometer with Integrating Sphere

CIME

CIMEL/BRDF "sun" photometer*

LAI/F

PARABOLA*

Therm

Surface Meteorology and Radiosondes

Transects: Energy (solar and thermal) and CO₂ Flux Measurement
LAI/FPAR radiometers
NPP (biomass weighing assessment)

NASA ER-2:

- AVIRIS Flights (?? AirMISR)
- AirMISR Flight (?? MAS)

Cessna: Exotech 4-band, new U.A. BRDF, Thermal Radiom

RPV (Freewing): ASD Spectrometer
TIMS

??

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Validation Planning Schedule: AM-1 Time-Framework

(ASTER, CERES, LIS, MISR, MODIS, MOPITT, SAGE III)

Post-ATBD Revised Validation Plan & Validation Summary Charts

Selection (NRA) of Investigators for AM-1 Validation

Quarterly Update of Validation Summary Charts

Final Updated Pre-Launch Validation Plan

LIS and CERES/TRMM

AM-1 Teams

SAGE III

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Validation Planning Schedule: PM-1 Time-Frame

(AIRS/AMSU/HSB, AMSR, CERES*, MODIS*, SeaWinds)

Validation Summary Charts & Draft Validation Plan

PM-1 Validation Workshop

Revised Validation Plan & Validation Summary Charts

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Peer Review of Validation Plans

Post-review Revised Validation Plan & Validation Summary Charts

Quarterly Update of Validation Summary Charts

PM-1 Time-frame Validation NRA

Final Updated Pre-Launch Validation Plan

SeaWinds

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PM-1 Teams

* CERES and MODIS are expected to provide Validation Plan Summary Charts specific to (through 2002) and to be active in the PM-1 Validation Workshop. The revised full validation response to the 1996/97 AM-1 ATBD reviews will adequately serve for PM-1 planning purposes. Teams will then develop their full validation plans just prior to the launch of the AM-1 platform in teams will then develop their full validation plans for the PM-1 mission with final plans due for the PM-1 platform as with the other teams on the PM-1 platform.

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